

CLAIMS:

Subar  
Cont

1. An image processing apparatus comprising:  
an imaging optical system for forming an  
image of an object on an imaging surface;  
a color imaging device including a plurality  
of photo detectors arranged on said imaging surface,  
each of said photo detectors forming a pixel, a  
multiplicity of sets of four filters for three colors,  
two of said four filters being used for selected one of  
said three colors, said filters being arranged at  
positions corresponding to said photo detectors,  
respectively, said object image being formed on said  
photo detectors through each of said filters by said  
imaging optical system;

shift drive means for shifting said imaging  
optical system and said photo detectors relatively to  
each other by a length corresponding to a predetermined  
number of pixels in said imaging surface; and

an image processing unit for generating an  
image using a plurality of image data picked up before  
and after said shift;

wherein said image processing unit generates  
and outputs a single monochromatic image using only the  
pixel data detected by the photo detectors having said  
two filters of a single color.

2. An image processing apparatus according to  
Claim 1,

wherein said color filters are arranged

0000000000 1121001

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are listed in a column, and the addresses are listed in a column next to them.

- extracting the pixel data of the pixels  
corresponding to said two filters of a single color

AI  
Came

4 picking up, by said color imaging device, the  
image of the object formed on said imaging surface  
after said shift;

generating a monochromatic image by synthesizing a plurality of pixel data extracted before and after said shift.

ADD A2

ADD a2